

## GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INTEND TO INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING WHERE INDICATED IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL BENDS, OFFSETS, DROPS, AND RISERS OF RUNS. THE CONTRACTOR MUST ALLOW IN THEIR BID FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS.
2. COORDINATE WORK WITH OTHER TRADES.
3. THE EXACT LOCATION OF DEVICES ARE SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER WHO RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATION WITHOUT EXTRA COST.
4. PROVIDE 3/4" C MINIMUM SIZE CONDUIT.
5. PROVIDE PULL BOXES WHERE INDICATED, REQUIRED BY CODE, AND WHERE NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULL BOX LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. PROVIDE PULL BOXES ACCESSIBLE AND NOT EXPOSED IN FINISHED SPACES.
6. THE HANGAR BAYS (OPEN HANGAR OH-A, OH-B, AND OH-C) ARE CLASSIFIED AS CLASS 1, DIV 2 HAZARDOUS LOCATIONS FROM THE FLOOR LEVEL TO 18" AFF. THE SPACE BELOW THE FINISHED FLOOR LEVEL (TRENCHES, PITS, DEPRESSIONS) IS CLASSIFIED AS CLASS1, DIV 1. COMPLY WITH NFPA 409 AND NFPA 70, ARTICLE 513.
7. "PROVIDE" MEANS CONTRACTOR MUST FURNISH NEW AND INSTALL COMPLETE AND READY FOR USE.
8. "REMOVE" MEANS CONTRACTOR MUST DISCONNECT, REMOVE FROM SITE (ONLY IF APPROVED BY THE CONTRACTING OFFICER) AND LEGALLY DISPOSE OF.
9. PROVIDE NEMA 4 RATED ENCLOSURES IN OPEN HANGAR BAY OH-A, OH-B AND OH-C.
10. PROVIDE ELECTRICAL WORK ASSOCIATED WITH THE AIR HANDLING UNITS AND LOW LEAKAGE AIR DAMPERS AS A BID OPTION.
11. PROVIDE ELECTRICAL WORK ASSOCIATED WITH THE REPLACEMENT OF SWITCHBOARD SA CIRCUIT BREAKERS AS A BID OPTION.

## GENERAL DEMOLITION NOTES

1. UNLESS OTHERWISE NOTED, DISCONNECT POWER TO MECHANICAL EQUIPMENT NOTED ON DRAWINGS. REMOVE CONTROLS AND ASSOCIATED RACEWAY AND CONDUCTORS BACK TO SOURCE.
2. TRACE AND FIELD VERIFY EXISTING CIRCUITRY PATH AND CONNECTIONS FOR REMOVAL WORK PRIOR TO COMMENCEMENT OF WORK.
3. PERFORM DEMOLITION AND REMOVAL WORK IN A NEAT AND WORKMAN LIKE MANNER. PATCH, REPAIR AND RESTORE DAMAGE TO INTERIOR AND EXTERIOR SURFACE TO ITS ORIGINAL CONDITIONS. REPAIRS MUST BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH OF THE SURROUNDING CONDITIONS.
4. EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION REMOVED UNDER THIS CONTRACT MUST REMAIN THE PROPERTY OF THE CONTRACTING OFFICER OR DISPOSED OF IN A LEGAL MANNER BY THE CONTRACTOR AS DIRECTED BY THE CONTRACTING OFFICER. REMOVE SALVAGED ITEMS CAREFULLY AND STORE AT LOCATION DIRECTED BY THE CONTRACTING OFFICER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ITEMS WHICH ARE NOT SALVAGED.
5. MODIFY EXISTING PANEL DIRECTORIES AFFECTED BY THE WORK UNDER THIS CONTRACT TO REFLECT CIRCUITRY REVISIONS.
6. MAINTAIN CONTINUITY OF CIRCUITRY TO DEVICES/EQUIPMENT THAT REMAIN AND ARE ON A COMMON CIRCUIT WITH REMOVED DEVICES/EQUIPMENT.

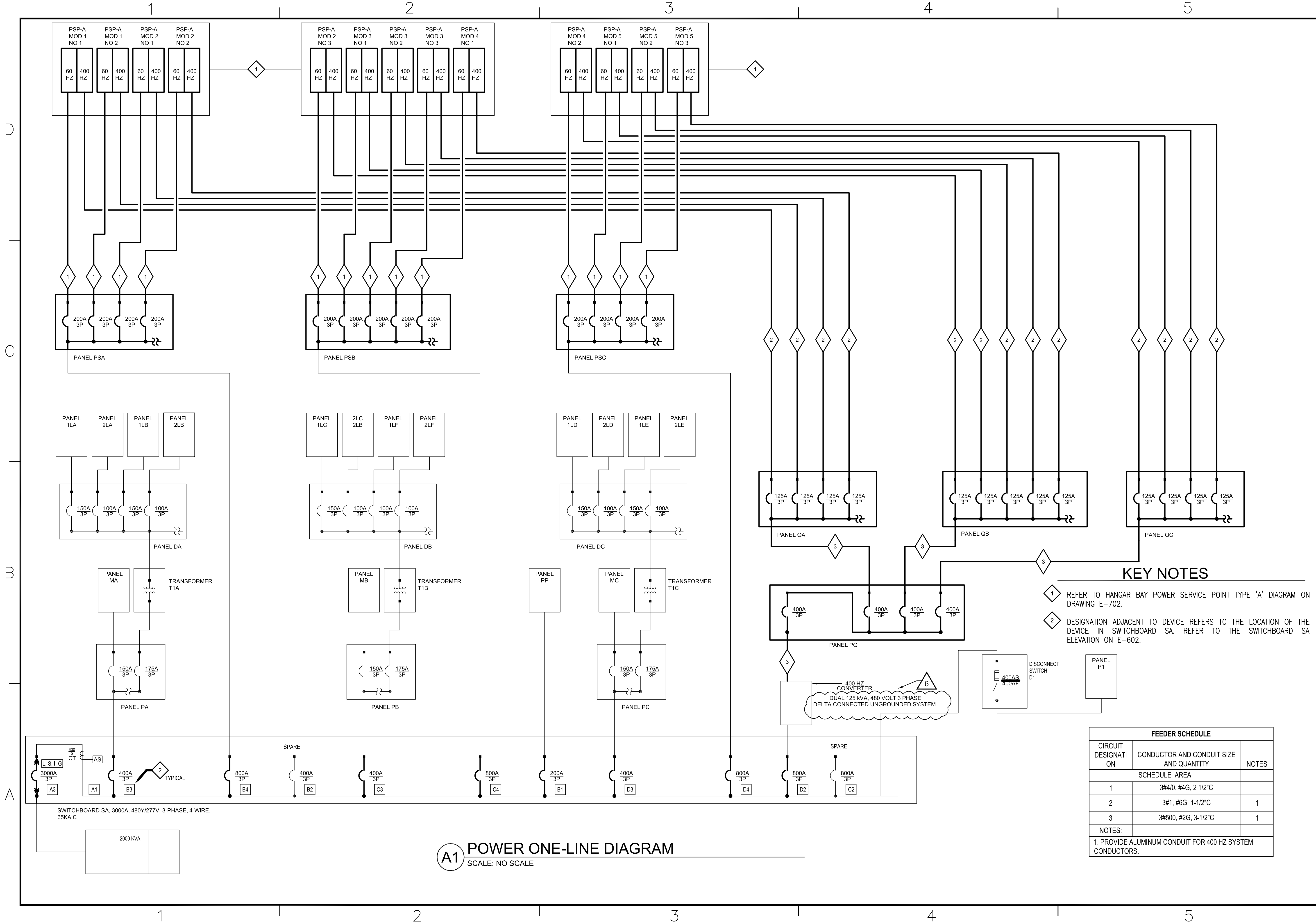
## ELECTRICAL SYMBOL LIST

SYMBOLS	DESCRIPTION
	GROUND ROD
	AIRCRAFT STATIC GROUND RECEPTACLE
	HANGAR BAY DOOR ELECTRICAL SAFETY EDGE
	LOCATION OF ONE OR MORE MOTOR OR EQUIPMENT CONTROL DEVICES AS SCHEDULED ON ELECTRIC EQUIPMENT AND CONTROL SCHEDULE. DESIGNATION REFERS TO EQUIPMENT CONTROLLED
	MOTOR CONNECTION, WITH DESIGNATION FROM ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
	EQUIPMENT CONNECTION, WITH DESIGNATION FROM ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW WORK
	REFERENCE TO DRAWING NOTE
	POWER FEEDER CIRCUIT DESIGNATION, SOME NOT SHOWN. REFER TO 700 SERIES DRAWINGS FOR DIAGRAMS AND FEEDER SCHEDULES.
	BRANCH CIRCUIT TO PANELBOARD, WHEN SHOWN, LETTERING INDICATES PANELBOARD DESIGNATIONS. PROTECT EACH BRANCH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS OTHER SIZE INDICATED. TYPICAL DESIGNATION, (2#12, #12G, 1/2"C, 20A-1P)
	BRANCH CIRCUIT OR FEEDER TO BE REMOVED. REMOVE RACEWAY SYSTEM AND CONDUCTORS BACK TO SOURCE, UNLESS NOTED OTHERWISE.
	GROUNDING ELECTRODE CONDUCTOR.
	480Y/277V BRANCH CIRCUIT PANELBOARD, UNLESS NOTED OTHERWISE. REFER TO PANEL BOARD SCHEDULE.
	DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE SUBSCRIPT INDICATES TYPE
	LIGHTNING PROTECTION SYSTEM AIR TERMINAL, X= TERMINAL TYPE AS SHOWN ON E-501
	TRANSFORMER, REFER TO ONE LINE DIAGRAM AND TRANSFORMER SCHEDULE
	DISCONNECT SWITCH, VOLTAGE AND AMPERE RATING TO MATCH EQUIPMENT SERVED, OR AS INDICATED
	VARIABLE FREQUENCY DRIVE. REFER TO VARIABLE FREQUENCY DRIVE SCHEDULE.
	CIRCUIT BREAKER, RATINGS AS INDICATED
	INDICATES DRAWOUT CIRCUIT BREAKER. L = LONG TIME, S = SHORT TIME, I = INSTANTANEOUS, G = GROUND FAULT PROTECTION
	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE; NUMERAL DESIGNATES KVA RATING, Δ = DELTA, Y = WYE
	FIRE ALARM SYSTEM RELEASE CONTROL PANEL (FOR REFERENCE ONLY)
	FIRE ALARM SYSTEM NOTIFICATION APPLIANCE BOOSTER PANEL (FOR REFERENCE ONLY)
	FIRE ALARM/MASS NOTIFICATION SYSTEM CONTROL PANEL (FOR REFERENCE ONLY)
	FIRE ALARM AND MASS NOTIFICATION SYSTEM REPORTING PANEL (FOR REFERENCE ONLY)
	FIRE ALARM AND MASS NOTIFICATION SYSTEM AMPLIFIER (FOR REFERENCE ONLY)
	FIRE ALARM SYSTEM WAVES PANEL (FOR REFERENCE ONLY)
	FIRE ALARM SYSTEM CONTROL PANEL (FOR REFERENCE ONLY)
	CABLE HOOK
	WEATHERPROOF GFCI DUPLEX RECEPTACLE (NEMA 5-20R)

## ABBREVIATIONS

<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
1P	SINGLE POLE
2P	TWO POLE
3P	THREE POLE
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFFQ	AQUEOUS FILM FORMING FOAM
AHJ	AUTHORITY HAVING JURISDICTION
AT	AMPERE TRIP
C	CONDUIT
CU	COPPER
DISC	DISCONNECT
E	EXISTING TO REMAIN
ECB	ENCLOSED CIRCUIT BREAKER
GFCI	GROUNDING FAULT INTERRUPTER
HP	HORSE POWER
HZ	HERTZ
JB	JUNCTION BOX
KW	KILOWATT
MLO	MAIN LUGS ONLY
TYP	TYPICAL
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WYE	WYE
Δ	DELTA

FILE NAME: C:\BA\1873\3\02 BW-CADD\2.1 Cadd Files\1372146\_E701.dwg LAYOUT NAME: Area A PLOTTED: Friday, June 24, 2016 - 11:20am USER: liberry




APPROVED		FOR COMMANDER NAVFAC		ACTIVITY		SATISFACTORY TO		DES		KSD		DRW		ASC		CHK		RPP			
BRANCH MANAGER		CHIEF ENG/ARCH		Mark J. Airaghi, PE		FIRE PROTECTION		NAVAL FACILITIES ENGINEERING COMMAND		MID-ATLANTIC		HANGAR 111 FIRE PROTECTION AND STRUCTURAL REPAIRS		RISER DIAGRAMS - ELECTRICAL		NAVAL AIR STATION OCEANA		VIRGINIA BEACH, VIRGINIA			
SCALE:		AS SHOWN		PROJECT NO.:		1372146		CONSTR. CONTR. NO.		NAVFAC DRAWING NO.		12716391		SHEET		169		OF		170	
E-701		DRAWING REVISION: 10 MAY 2014		DATE		5/2/2016		DATE		6/2/2016		DATE		5/2/2016		DATE		5/2/2016		DATE	





- 1 PROVIDE WEATHER PROOF GFCI DUPLEX RECEPTACLE (NEMA 5-20R)
- 2 PROVIDE 100A-3P, 480V, CLASS L RECEPTACLE.
- 3 PROVIDE 400HZ AIRCRAFT PLUG IN ACCORDANCE WITH MS 25486-17.
- 4 PROVIDE ECB1 WITH RED AND GREEN INDICATING LIGHTS. ILLUMINATE RED FOR POWER "ON" POSITION AND GREEN FOR POWER "OFF" POSITION.
- 5 PROVIDE CABLE HOOK SIMILAR TO OTHER CABLE HOOKS ON BASE. REFER TO STRUCTURAL DETAIL 5 ON DRAWING S-503 FOR ADDITIONAL INFORMATION.

FEEDER SCHEDULE		
CIRCUIT DESIGNATION	CONDUCTOR AND CONDUIT SIZE AND QUANTITY	NOTES
	SCHEDULE_AREA	
1	REFER TO ONE-LINE DIAGRAM ON DRAWING, E-701	
2	3#4/0, #4G, 2-1/2" C	
3	3#2, #8G, 1-1/2" C	
4	2#12, #12G, 3/4" C	
5	3#1, #6G, 1-1/2" C	
6	4#2/0, #6G, 2" C	
7	60 FOOT AIRCRAFT SERVICE CABLE, REFER TO SPECIFICATION SECTION 26, 35, 43 400HZ SOLID STATE FREQUENCY CONVERTER	← 
8	2#6, #8G, 3/4" C	

